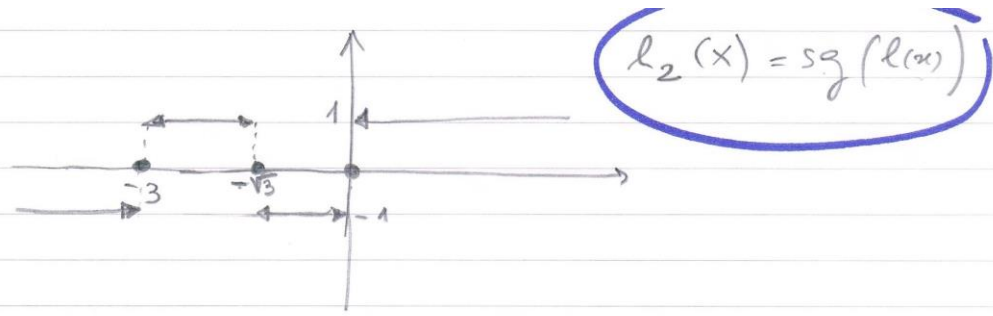
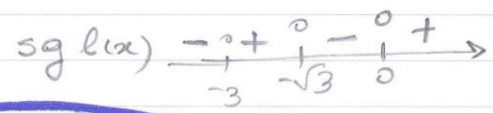


Clase por Discord- 5 de mayo



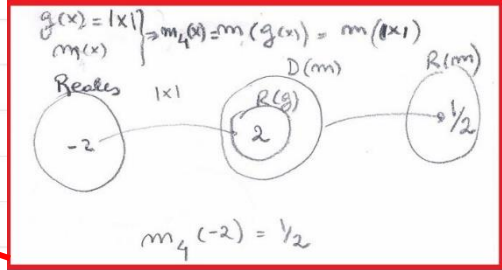
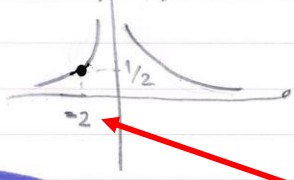
$l_2(x) = \text{sg}(l(x))$



$m_4(x) = m(|x|)$

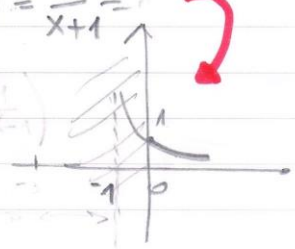
~~$m(x)$~~

- $x \geq 0 \rightarrow m(|x|) = m(x)$
- $x < 0 \rightarrow m(|x|) = m(-x)$



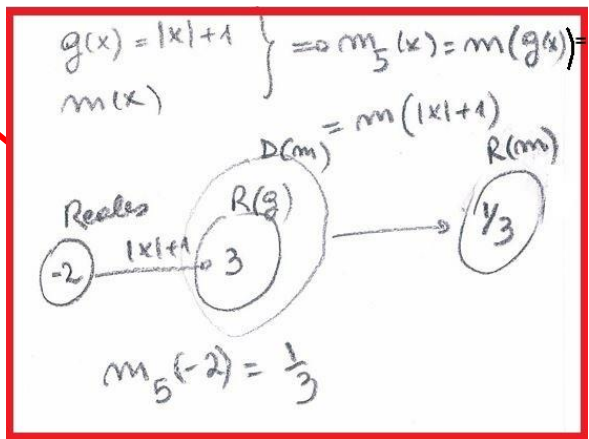
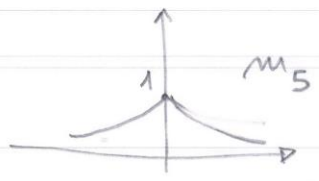
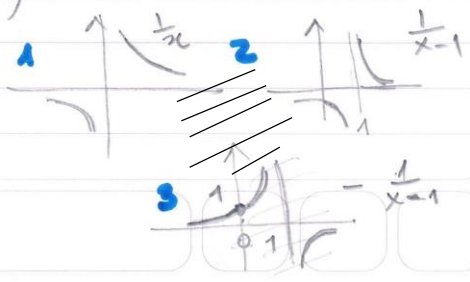
$m_5(x) = m(|x| + 1)$

- $x \geq 0 \rightarrow m(|x| + 1) = m(x + 1) = \frac{1}{x+1}$
- $x < 0 \rightarrow m(-x + 1) = \frac{1}{-x+1}$

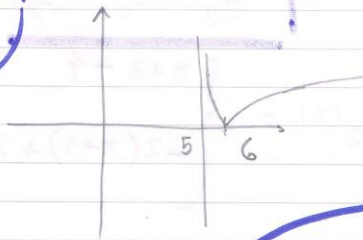


$\frac{-a}{b} = \frac{a}{-b} = -\frac{a}{b}$

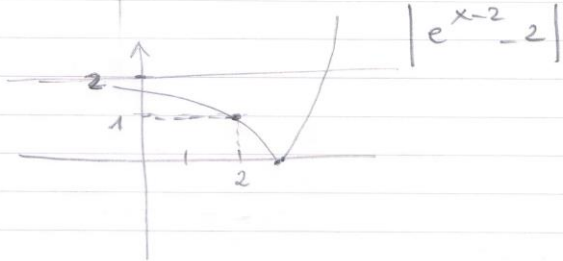
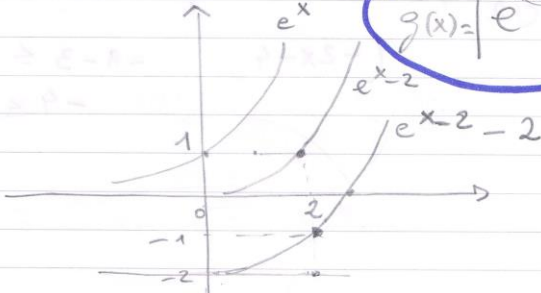
$= -\left(\frac{1}{x-1}\right)$



$$f(x) = |L(x-5)|$$



$$g(x) = |e^{x-2} - 2|$$



Escribir la expresión de la función transformada

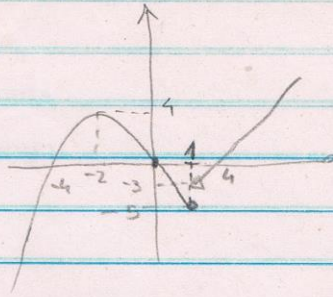
$$f_2(x) = j(x+3)$$

$$f_2(x) = \begin{cases} x+3-4, & x+3 \geq 2 \\ -2(x+3)+2, & -1 \leq x+3 < 2 \end{cases}$$

$$f_2(x) = \begin{cases} x-1, & x \geq -1 \\ -2x-4, & -1-3 \leq x+3-3 < 2-3 \\ & -4 \leq x < -1 \end{cases}$$

• Expresiones de las transformaciones.

$$f(x) = \begin{cases} -x^2 - 4x, & x \leq 1 \\ x - 4, & x > 1 \end{cases}$$

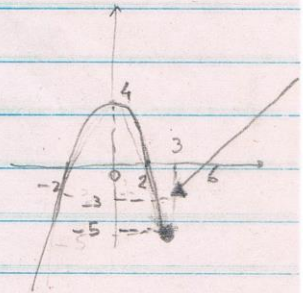


$$|f(x)| = \begin{cases} x^2 + 4x, & x < -4 \\ -x^2 - 4x, & -4 \leq x \leq 0 \\ x^2 + 4x, & 0 < x \leq 1 \\ -x + 4, & 1 < x \leq 4 \\ x - 4, & x > 4 \end{cases}$$

$$-f(x) = \begin{cases} x^2 + 4x, & x \leq 1 \\ -x + 4, & x > 1 \end{cases}$$

$$f(x) - 2 = \begin{cases} -x^2 + 4x - 2, & x \leq 1 \\ x - 6, & x > 1 \end{cases}$$

$$f(x-2) = \begin{cases} -(x-2)^2 - 4(x-2), & x-2 \leq 1 \\ x-2-4, & x-2 > 1 \end{cases}$$



$$-x^2 + 4x - 4 - 4x + 8$$

$$\left. \begin{array}{l} \\ \\ \end{array} \right\} \begin{cases} -x^2 + 4, & x \leq 3 \\ x - 6, & x > 1 \end{cases}$$